# SIEMENS

### Data sheet

## 3VA6225-6KQ41-2AA0



Circuit breaker 3VA6 UL frame 250 breaking capacity class H 65kA @ 480V 4pole, Line protection ETU860, LSIG, In=250A overload protection, 100% rated Ir=100A...250A Short-circuit protection Isd=0.6..10x In, Ii=1.5..10x In N conductor protection adjustable (OFF, up to 100%) Ground-fault protection Ig=0.2...1 x In= tg=0.05-0.8s without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HFAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	ETU860
protection function of the overcurrent release	LSIG
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	42 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	14 W
mechanical service life (operating cycles) / typical	25 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	12 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	8 400
electrical endurance (operating cycles) / at 480 V	12 000
electrical endurance (operating cycles) / at 600 V	8 400
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Summation current formation L + N-conductor
product function	
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>other measurement function</li> </ul>	Yes
Net Weight	2.9 kg
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
operational current	
● at 40 °C	250 A
● at 45 °C	250 A
● at 50 °C	250 A
● at 55 °C	238 A
● at 60 °C	225 A
● at 65 °C	213 A
• at 70 °C	200 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Н
maximum short-circuit current breaking capacity (Icu)	

-+ 0.40 \/	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	3 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	3 kA
short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	4.5 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	100 kA
• at 480 V	65 kA
• at 600 Y/347 V	22 kA
• at 600 V	22 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with	
I2t characteristic	
• minimum	100 A
• maximum	250 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
• maximum	13 s
adjustable response value setting current (Isd) / of S-trip / with	
lot characteristic	
• minimum	150 A
• maximum	2 500 A
adjustable response value setting current (lsd) / of S-trip / with	
12t characteristic	
• minimum	150 A
• maximum	2 500 A
adjustable response value delay time (tsd) / for S-tripping / with	
I0t characteristic	0.05 a
• minimum	0.05 s
maximum	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with l2t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value setting current (li) / for I-tripping	
minimum	375 A
• maximum	2 500 A
adjustable current response value current / for G-tripping / with	
standard characteristic	
• initial value	50 A
• full-scale value	250 A
adjustable response value delay time (tg) / for G-tripping / with l0t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic	
• minimum	50 A
• maximum	250 A
adjustable response value delay time (tg) / for G-tripping / with I2t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable setting current (InN) / for N-tripping	
• minimum	50 A
• maximum	250 A

adjustable delay time / of S-trip / with I2t characteristic	0.5 s		
adjustable current response value current / of instantaneous	0.0 5		
short-circuit trip unit			
• minimum	375 A		
• maximum	2 500 A		
design of the N-conductor protection	adjustable OFF; 20% to 100%		
product function / grounding protection	Yes		
total break time / for G-tripping / with standard characteristic	-		
initial value	0.05 s		
• full-scale value	0.8 s		
echanical Design			
product component			
undervoltage release	No		
voltage trigger	No		
trip indicator	No		
height [in]	7.8 in		
neight	198 mm		
width [in]	5.51 in		
width	140 mm		
depth [in]	3.39 in		
depth	86 mm		
onnections			
arrangement of electrical connectors / for main current circuit	Without connection		
type of electrical connection / for main current circuit	Without		
uxiliary circuit	Williout		
	0		
number of CO contacts / for auxiliary contacts	0		
ccessories	Vee		
product extension / optional / motor drive	Yes		
nvironmental conditions			
protection class IP / on the front	IP40		
ambient temperature	05.00		
during operation / minimum	-25 °C		
during operation / maximum	70 °C		
during storage / minimum	-40 °C		
during storage / maximum	80 °C		
ertificates			
reference code / according to IEC 81346-2	Q		
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes		
General Product Approval			
Confirmation		Miscellaneous	
(CCC) (Ui)	(Ui)		FAL
			ENL
ccc UL	UL		
EMC Declaration of Conformity	Marina / Chinning		athar
EMC Declaration of Conformity	Marine / Shipping		other
	-	2 2	<b>Confirmation</b>
KA CE UN	L (1927)	14	
	and the second	DNV	
RCM EG-Konf.	ABS	DNV	
other Dangerous G	bod		
other Dangerous G Miscellaneous Transport Infor			

#### Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}$ 

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA6225-6KQ41-2AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VA6225-6KQ41-2A

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

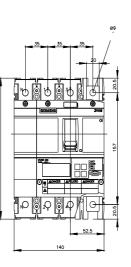
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA6225-6KQ41-2AA0

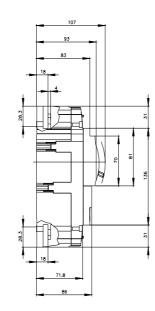
CAx-Online-Generator

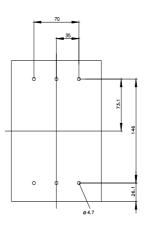
http://www.siemens.com/cax

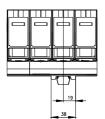
**Tender specifications** 

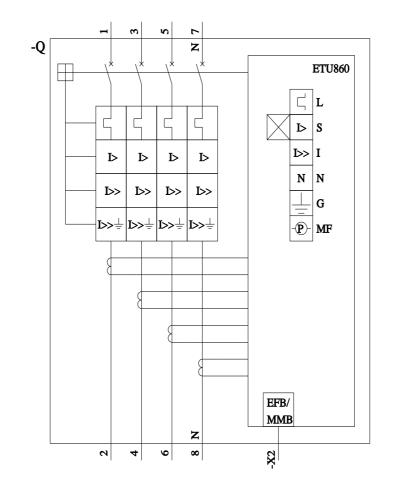
http://www.siemens.com/specifications

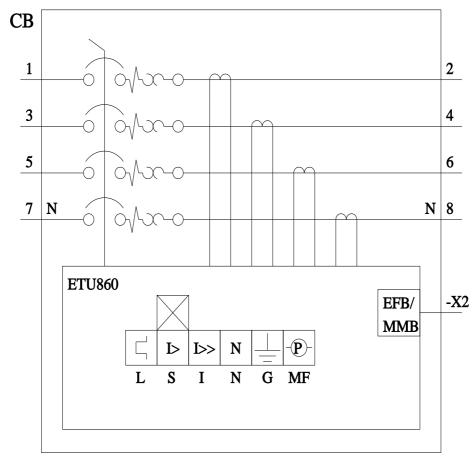












#### last modified:

8/14/2023 🖸

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: <u>3VA62256KQ412AA0</u>